Government of Saskatchewan

Annual Report 2004

Saskatchewan Health Vital Statistics

100 - 1942 Hamilton Street
Regina, Saskatchewan
S4P 4W2

105-05068/

Letters of Transmittal

To the Honourable Dr. L.M. Haverstock
Lieutenant Governor of Saskatchewan

May It Please Your Honour:

We respectfully submit, for your consideration, the Annual Report on Saskatchewan Vital Statistics for the calendar year 2004.

Respectfully submitted,

John T. Nilson, Q.C.
Minister of Health

To the Honourable John T. Nilson, Q.C.
Minister of Health

Minister:

On behalf of department staff, I am pleased to present the Annual Report on Saskatchewan Vital Statistics for the calendar year 2004.

This report presents a concise record of those vital events that occurred in Saskatchewan during the calendar year 2004.

Respectfully submitted,

John Wright
Deputy Minister

Table of Contents

	Page
Terms and Definitions	1
Introduction	2
Population	4
Births	5
Stillbirths	6
Deaths	6
Accidents and Violence	11
Natural Increase in Population	11
Marriages	12
Divorces	13
Life Expectancy	14
Adoptions	15
Legal Changes of Name	15
Documents Issued	15

List of Tables

		Page
Table 1.	Summary of Vital Statistics, Saskatchewan, 1999-2004	3
Table 2.	The Historical Trend in Saskatchewan Population	4
Table 3.	Distribution of Total Population, Saskatchewan, 2004	5
Table 4.	Percentage Distribution by Sex, Saskatchewan, for Selected Years	5
Table 5.	Live Birth Rates per 1,000 Population, Canada and the Provinces, 2004	6
Table 6.	Crude Death Rates per 1,000 Population, Canada and the Provinces, 2004	7
Table 7.	Age Specific Death Rates per 1,000 Population, Saskatchewan, 1994-2004	7
Table 8.	Number of Deaths by Cause Occurring in Saskatchewan in 2004	8
Table 9.	Natural Increase and Actual Increase, Saskatchewan, 1994 – 2004	12
Table 10.	Marriage Rates per 1,000 Population, Canada and the Provinces, 2002	13
Table 11.	Life Expectancy, Saskatchewan, 1941, 1961, 1981, and 1996	14
Table 12.	Documents Issued 2001 – 2004	15

Terms and Definitions

A summary of symbols, definitions, and the method of computing rates used in this report are given below.

Definitions

Population	This report contains postcensal estimates for 1993 - 1995, 1997-2004 and final census figures for 1996 and 2001.
Live Births	Infants born alive, i.e., excluding stillbirths.
Stillbirths	Fetal deaths occurring after at least 20 weeks pregnancy or after attaining a weight of at least 500 grams.
Deaths	Excludes stillbirths.
Infant Deaths	Deaths under 1 year of age.
Neonatal Deaths	Deaths under 28 days (4 weeks) of age.
Perinatal Deaths	Fetal deaths of 500 grams or more plus infant deaths under 7 days (1 week) of age.
Natural Increase	Excess of births over deaths.

Rates (unless otherwise indicated, computed as follows)

Live Births	: per 1,000 population
Stillbirths	: per 1,000 live births
Marriages	: per 1,000 population
Divorces	: per 100,000 population
Natural Increase	: per 1,000 population

Introduction

The Vital Statistics Annual Report represents a concise record of those vital events which occurred in Saskatchewan during the calendar year. The Report has been prepared in accordance with the requirements of subsections 50(1) and 50(2) of *The Vital Statistics Act, 1995.*

The Vital Statistics Annual Report 2004 records vital events by place of occurrence for 2004 (vital events which occurred in Saskatchewan in 2004). It includes, for example, births to Saskatchewan residents who were in the province at the time of giving birth, as well as residents of other provinces (or countries) who were in Saskatchewan at the time of giving birth.

The data in this report are based on original registration forms and do not include amendments. The vital events recorded in this report for years previous to 2004 are by place of residence, unless otherwise indicated.

Table 1. Summary of Vital Statistics, Saskatchewan 1998 – 2003

Item	1999	2000	2001	2002	2003*	2004
Population (ooo's)	1,025	1,022	1,017	1,012	995	995
Live Births	12,604	12,140	12,275	11,761	12,113	12,078
Crude Rate++	12.3	11.9	12.0	11.6	12.2	12.1
Deaths	9,044	8,956	8,740	8,906	8,829	8,881
Crude Rate++	8.8	8.8	8.6	8.7	8.9	8.9
Natural Increase	3,534	3,142	3,475	2,915	3,288	3,197
Crude Rate++	3.4	3.1	3.4	2.9	3.3	3.2
Infant Deaths	79	82	68	67	67	71
Crude Rate**	6.3	6.8	5.5	5.7	5.5	5.9
Neonatal Deaths	50	41	49	40	57	62
Crude Rate**	4.0	3.4	4.0	3.4	4.7	5.1
Perinatal Deaths@						
500 grams or more (20+ weeks Gestation)	115	104	128	126	119	124
Crude Rate+++	9.2	8.6	10.4	10.7	9.8	10.2
500 grams or more (28+ weeks Gestation)	91	91	95	97	91	88
Crude Rate+++	7.3	7.5	7.7	7.8	7.5	7.2
Stillbirths@						
500 grams or more (20+ weeks Gestation)	72	72	81	92	78	86
Crude Rate**	5.8	6.0	6.7	9.1	6.4	7.1
500 grams or more (28+ weeks Gestation)	48	59	49	57	50	50
Crude Rate**	3.8	4.9	4.0	4.8	4.1	4.1
Marriages	5,919	5,717	5,060	5,067	4,976	5,043
Crude Rate++	5.8	5.6	5.0	5.0	5.1	5.1
Divorces and Annulments	2,237	2,194	1,955	1,959	2,001	1,877

* Preliminary figures only. Final figures not yet released by Statistics Canada.
** Crude Rate per 1,000 live births
++ Crude Rate per 1,000 population
+++ Crude Rate per 1,000 total births (live births and stillbirths)
@ See Terms and Definitions, page 1

A. Population

1. The Historical Trend

The estimated population of 995,391 for 2004 is an increase of .55 per cent over the 2003 estimated population of 994,843.

Table 2. The Historical Trend in Saskatchewan Population

Year	Population (000's)
1941	896
1951	832
1961	925
1971	926
1981	968
1991	991
2001	1,017*
2002	1,012*
2003	995*
2004	995*

* Statistics Canada postcensal estimate. All other figures are final census.

2. The Distribution of the Total Population by Age

The proportion of older people (65 years of age and over) has been increasing in Canada as a whole and in Saskatchewan. In Saskatchewan the proportion of persons 65 years of age and over is greater than in Canada as a whole (14.8 percent and 13.0 percent respectively).

Table 3. Distribution of Total Population by Age 2004 (000's)

	Canada		Saskatchewan	
Age Group	Number	Percent	Number	Percent
Total	31,946.3	100.0	995.4	100.0
0-19	7,854.2	24.6	275.4	27.7
20-44	11,758.6	36.8	336.2	33.8
45-64	8,192.6	25.6	236.3	23.7
65+	4,141.0	13.0	147.5	14.8

Table 4. Percentage Distribution by Sex, Saskatchewan, for Selected Years

Year	Male	Female	Males per 100 Females
1931	54.2	45.8	119
1941	53.3	46.7	114
1951	52.2	47.8	109
1961	51.8	48.2	108
1971	50.8	49.2	103
1981	50.2	49.8	101
1991	49.6	50.4	99
2001	49.6	50.4	98
2002*	49.6	50.4	98
2003*	49.7	50.3	99
2004*	49.7	50.3	99

* Statistics Canada postcensal estimate.
All other figures are final census.

B. Births

1. Live Births

During the year 2004, a total of 12,078 live births occurred in the province of Saskatchewan. This total includes births to Saskatchewan mothers residing in the province at the time of giving birth and those births occurring to mothers who normally reside outside the province but who were in Saskatchewan at the time of giving birth.

The total of 12,078 live births represents a crude birth rate of 12.1 live births per 1,000 population, which is slightly lower than last year's birth rate of 12.2.

The birth rates for Saskatchewan, for Canada, and for the provinces and territories are shown below for comparison.

Table 5. Live Birth Rates per 1,000 Population, Canada and Provinces.

Province	2002-2003	2003-2004
Canada	10.4	10.4
Newfoundland	8.9	8.8
Prince Edward Island	9.7	9.6
Nova Scotia	9.2	9.1
New Brunswick	9.3	9.2
Quebec	9.7	9.9
Ontario	10.6	10.4
Manitoba	12.0	12.0
Saskatchewan	11.8	11.8
Alberta	12.4	12.3
British Columbia	9.8	9.6
Yukon	11.3	11.5
Northwest Territories	15.2	15.0
Nunavut	25.6	25.8

* Estimate from demography division July 1 – June 30.

2. Stillbirths

During the year 2004, a total of 86 stillbirths occurred in the province. The definition of stillbirth is given on page 1. The 86 stillbirths occurred after 20 or more weeks gestation; 50 of the stillbirths occurred after 28 or more weeks gestation. These two totals represent crude rates of 7.1 and 4.1 stillbirths per 1,000 live births respectively.

C. Deaths

During the year 2004, a total of 8,881 deaths occurred within the province of Saskatchewan. This represents a crude death rate of 8.9 deaths per 1,000 population, which is the same as the 2003 crude death rate.

The death rates for Saskatchewan, for Canada, and for the provinces are shown in the table below for comparison.

Table 6. Crude Death Rates per 1,000 Population, Canada and Provinces.

Province	2002-2003	2003-2004
Canada	7.1	7.3
Newfoundland	8.2	8.5
Prince Edward Island	9.1	9.3
Nova Scotia	8.7	8.9
New Brunswick	8.2	8.5
Quebec	7.3	7.5
Ontario	6.9	7.1
Manitoba	8.6	8.8
Saskatchewan	9.0	9.2
Alberta	5.9	6.1
British Columbia	6.9	7.1
Yukon	5.0	5.2
Northwest Territories	4.0	4.1
Nunavut	4.4	4.6

* Estimate from demography division July 1 – June 30.

Table 7. Age Specific Death Rates per 1,000 Population, Saskatchewan, 1994 – 2004

	All	Age Group					
Year	Ages	Under 5	5-14	15-24	25-44	45-64	65+
1994	8.2	2.0	0.3	0.8	1.1	5.9	44.9
1995	8.4	2.2	0.3	0.8	1.2	5.8	45.5
1996	8.6	1.9	0.2	0.7	1.2	5.5	47.4
1997	8.4	2.0	0.3	0.7	1.2	5.3	46.9
1998	8.7	1.6	0.1	0.8	1.0	5.2	48.4
1999	8.8	1.5	0.2	0.6	1.1	5.2	49.2
2000	8.8	1.5	0.2	0.8	1.2	4.9	49.0
2001	8.6	1.3	0.1	0.7	1.1	4.9	48.4
2002*	8.7	1.2	0.2	0.7	1.0	4.9	48.9
2003*	8.9	1.3	0.2	0.8	1.2	4.5	49.1
2004*	8.9	1.4	0.2	0.8	1.3	5.0	48.4

* Statistics Canada postcensal estimate.
All other figures are final census.

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2004

	Deaths	Percent	Rate*
All Causes of Death	8881	100.0	892.2
1 Salmonella infections	0	0.0	0.0
2 Shigellosis and amebiasis	0	0.0	0.0
3 Certain other intestinal infections	8	0.1	0.8
4 Respiratory tuberculosis	1	0.0	0.1
5 Other tuberculosis	0	0.0	0.0
6 Whooping cough	0	0.0	0.0
7 Scarlet fever and erysipelas	0	0.0	0.0
8 Meningococcal infection	2	0.0	0.2
9 Septicemia	81	0.9	8.1
10 Syphilis	0	0.0	0.0
11 Acute poliomyelitis	0	0.0	0.0
12 Arthropod-borne viral encephalitis	0	0.0	0.0
13 Measles	0	0.0	0.0
14 Viral hepatitis	2	0.0	0.2
15 Human immunodeficiency virus (HIV) disease	10	0.1	1.0
16 Malaria	0	0.0	0.0
17 Other and unspecified infectious and parasitic diseases and their sequelae	13	0.1	1.3
18 Malignant neoplasms of lip, oral cavity and pharynx	24	0.3	2.4
19 Malignant neoplasm of esophagus	47	0.5	4.7
20 Malignant neoplasm of stomach	64	0.7	6.4
21 Malignant neoplasms of colon, rectum and anus	237	2.7	23.8
22 Malignant neoplasms of liver and intrahepatic bile ducts	40	0.5	4.0
23 Malignant neoplasm of pancreas	106	1.2	10.6
24 Malignant neoplasm of larynx	9	0.1	0.9
25 Malignant neoplasms of trachea, bronchus and lung	507	5.7	50.9
26 Malignant melanoma of skin	26	0.3	2.6
27 Malignant neoplasm of breast	163	1.8	16.4
28 Malignant neoplasm of cervix uteri	11	0.1	1.1
29 Malignant neoplasms of corpus uteri and uterus, part unspecified	24	0.3	2.4
30 Malignant neoplasm of ovary	55	0.6	5.5
31 Malignant neoplasm of prostate	220	2.5	22.1
32 Malignant neoplasms of kidney and renal pelvis	53	0.6	5.3
33 Malignant neoplasm of bladder	52	0.6	5.2
34 Malignant neoplasms of meninges, brain and other parts of central nervous system	39	0.4	3.9
35 Hodgkin's disease	1	0.0	0.1
36 Non-Hodgkin's lymphoma	98	1.1	9.8
37 Leukemia	89	1.0	8.9
38 Multiple myeloma and immunoproliferative neoplasms	55	0.6	5.5

	Deaths	Percent	Rate*
39 Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue	0	0.0	0.0
40 All other and unspecified malignant neoplasms	322	3.6	32.3
41 In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	58	0.7	5.8
42 Anemias	18	0.2	1.8
43 Diabetes mellitus	326	3.7	32.8
44 Malnutrition	7	0.1	0.8
45 Other nutritional deficiencies	2	0.0	0.2
46 Meningitis	5	0.1	0.1
47 Parkinson's disease	61	0.7	6.1
48 Alzheimer's disease	218	2.5	21.9
49 Acute rheumatic fever and chronic rheumatic heart diseases	13	0.1	1.3
50 Hypertensive heart disease	51	0.6	5.1
51 Hypertensive heart and renal disease	3	0.0	0.1
52 Acute myocardial infarction	628	7.1	63.1
53 Other acute ischemic heart diseases	7	0.1	0.8
54 Atherosclerotic cardiovascular disease, so described	118	1.3	11.9
55 All other forms of chronic ischemic heart disease	698	7.9	70.1
56 Acute and subacute endocarditis	3	0.0	0.3
57 Diseases of pericardium and acute myocarditis	6	0.1	0.7
58 Heart failure	330	3.7	33.2
59 All other forms of heart disease	307	3.5	30.8
60 Essential (primary) hypertension and hypertensive renal disease	77	0.9	7.7
61 Cerebrovascular diseases	601	6.8	60.4
62 Atherosclerosis	47	0.5	4.7
63 Aortic aneurysm and dissection	85	1.0	8.5
64 Other diseases of arteries, arterioles and capillaries	38	0.4	3.8
65 Other disorders of circulatory system	18	0.2	1.8
66 Influenza	13	0.1	1.3
67 Pneumonia	279	3.1	28.0
68 Acute bronchitis and bronchiolitis	1	0.0	0.1
69 Unspecified acute lower respiratory infection	3	0.0	0.3
70 Bronchitis, chronic and unspecified	5	0.1	0.5
71 Emphysema	36	0.4	3.6
72 Asthma	0	0.0	0.0
73 Other chronic lower respiratory diseases	325	3.7	32.7
74 Pneumoconioses and chemical effects	0	0.0	0.0
75 Pneumonitis due to solids and liquids	41	0.5	4.1
76 Other diseases of respiratory system	124	1.4	12.5
77 Peptic ulcer	18	0.2	1.8
78 Diseases of appendix	1	0.0	0.1
79 Hernia	7	0.1	0.7

	Deaths	Percent	Rate*
80 Alcoholic liver disease	43	0.5	4.3
81 Other chronic liver disease and cirrhosis	30	0.3	3.0
82 Cholelithiasis and other disorders of gallbladder	14	0.2	1.4
83 Acute and rapidly progressive nephritic and nephrotic syndrome	1	0.0	0.1
84 Chronic glomerulonephritis, nephritis & nephritis not specified as acute or chronic and renal sclerosis unspecified	1	0.0	0.1
85 Renal failure	186	2.1	18.7
86 Other disorders of kidney	0	0.0	0.0
87 Infections of kidney	6	0.1	0.6
88 Hyperplasia of prostate	3	0.0	0.3
89 Inflammatory diseases of female pelvic organs	0	0.0	0.0
90 Pregnancy with abortive outcome	0	0.0	0.0
91 Other complications of pregnancy, childbirth and the puerperium	1	0.0	0.1
92 Certain conditions originating in the perinatal period	26	0.3	2.7
93 Congenital malformations, deformations and chromosomal abnormalities	27	0.3	2.7
94 Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	105	1.2	10.5
95 All other diseases (Residual)	788	8.9	79.2
96 Motor vehicle accidents	111	1.2	11.2
97 Other land transport accidents	6	0.1	0.6
98 Water, air and space, and other and unspecified transport accidents	7	0.1	0.7
99 Falls	76	0.9	7.6
100 Accidental discharge of firearms	7	0.1	0.7
101 Accidental drowning and submersion	6	0.1	0.6
102 Accidental exposure to smoke, fire and flames	15	0.2	1.5
103 Accidental poisoning and exposure to noxious substances	32	0.4	3.2
104 Other and unspecified nontransport accidents and their sequelae	122	1.4	12.3
105 Intentional self-harm (suicide) by discharge of firearms	28	0.3	2.8
106 Intentional self-harm (suicide) by other and unspecified means and their sequelae	81	0.9	8.1
107 Assault (homicide) by discharge of firearms	2	0.0	0.2
108 Assault (homicide) by other and unspecified means and their sequelae	23	0.3	2.3
109 Legal intervention	0	0.0	0.0
110 Discharge of firearms, undetermined intent	0	0.0	0.0
111 Other and unspecified events of undetermined intent and their sequelae	9	0.1	0.9
112 Operations of war and their sequelae	0	0.0	0.0
113 Complications of medical and surgical care	12	0.1	1.2
900 Not yet classified at time of printing	176	2.0	17.7

*Crude Rate per 100,000 population (Statistics Canada Population Base)

Accidents and Violence

During the year 2004, a total of 382 deaths due to accidents occurred in the province of Saskatchewan. This represents a crude rate of 38.4 deaths by accidents per 100,000 population in 2004. This is lower than the 412 deaths by accident (crude rate of 41.4 deaths per 100,000 population) recorded in 2003.

The number of suicides that occurred in Saskatchewan during 2004, was 109. This represents a crude rate of 11.0 suicides per 100,000 population. This is higher than the 93 suicides (9.3 crude rate per 100,000 population) recorded in 2003.

There were 25 homicides in Saskatchewan in 2004, a decrease from the 34 homicides reported in 2003.

D. Natural Increase in Population

In 2004, the natural increase was 3,197 and the estimated actual increase was 548, giving rates per 1,000 population of 3.2 and 0.55 respectively.

Table 9. Natural Increase and Actual Increase, Saskatchewan, 1994 – 2004*

Year	Population	Live Births	Deaths	Natural Increase Number	Natural Increase Rate per 1,000 Pop.	Est. Actual Increase Number	Est. Actual Increase Rate per 1,000 Pop.
1994	1,016,200	14,038	8,308	5,730	5.6	13,100	12.9
1995	1,016,162	13,515	8,475	5,040	5.0	-38	-0.04
1996	1,022,537	12,974	7,713	5,261	5.1	6,375	6.2
1997	1,023,500	12,860	8,637	4,223	4.1	963	0.9
1998	1,024,387	12,777	8,838	3,939	3.8	887	0.9
1999	1,025,495	12,604	9,044	3,560	3.5	1,008	1.0
2000	1,021,992	12,140	8,956	3,184	3.1	-3,503	-3.4
2001	1,017,087	12,275	8,740	3,535	3.5	-4,905	-4.8
2002*	1,011,808	11,761	8,906	2,855	2.8	-5,279	-5.2
2003*	994,843	12,113	8,829	3,284	3.3	-17,325	-17.1
2004*	995,391	12,078	8,881	3,197	3.2	548	0.55

* Statistics Canada post censal estimate. All other figures are final census.

Note: Saskatchewan's covered population on June 30, 2004 (per the provincial health registry) was 1,018,057.

E. Marriages

During the year 2004, a total of 5,043 marriages occurred in Saskatchewan. This total represents a crude rate of 5.1 marriages per 1,000 population. Marriage rates for Canada, the provinces, and Saskatchewan for 2002 are given on the next page for comparison.

In 2004, Saskatchewan recognized marriages between same sex partners. Of the 5,043 marriages registered in Saskatchewan in 2004, 12 of those marriages were between same sex partners.

Table 10. Marriages Rate per 1,000 Population, Canada and the Provinces, 2002

Province	Rate
Canada	4.7
Newfoundland	5.7
Prince Edward Island	6.6
Nova Scotia	5.2
New Brunswick	5.1
Quebec	3.0
Ontario	5.1
Manitoba	5.1
Saskatchewan	5.1
Alberta	5.8
British Columbia	5.2
Yukon	4.7
Northwest Territories	3.5
Nunavut	2.5

F. Divorces

In 2004, a total of 1,877 divorces and annulments were registered in Saskatchewan at the time of publication. This may not represent the total number of petitions filed in 2004 as some petitions may not yet be finalized.

G. Life Expectancy

A life expectancy table is, in effect, the history of mortality of 100,000 male babies and of 100,000 female babies born at the same time. Life expectancy figures provide the average expectation of life and are a fairly good reflection of the general health and survival conditions at the time of their compilation.

According to the Saskatchewan life table compiled on the basis of the 1996 census, the life expectancy at birth reached an all-time peak for females, 81.30 years, and for males, 75.40 years. The gain in life expectancy is greater in females.

Table 11. Life Expectancy, Saskatchewan, 1941, 1961, 1981, 1996.

	Life Expectancy				Gain or Loss In Life Expectancy		
	1941	1961	1981	1996	1961 over 1941	1981 over 1961	1996 over 1981
			Males				
At Birth	65.43	70.27	72.43	75.40	4.84	2.16	2.97
20	51.28	53.49	54.35	56.60	2.21	0.86	2.25
40	33.32	34.99	35.92	37.90	1.67	0.93	1.98
60	16.82	18.10	19.09	20.40	1.28	0.99	1.31
80	5.76	6.31	7.16	7.60	0.55	0.85	0.44
			Females				
At Birth	68.19	75.93	79.61	81.30	7.74	3.68	1.69
20	53.08	58.35	60.85	62.40	5.27	2.50	1.55
40	34.96	39.09	41.64	43.00	4.13	2.55	1.36
60	18.26	21.09	23.65	24.80	2.83	2.56	1.15
80	6.38	7.29	8.94	9.90	0.91	1.65	0.96

Note: Source of figures for 1941: Life Tables for Canada and Regions, 1941 and 1931, D.B.S. Ottawa 1947. These figures have been calculated for the prairie provinces. The figures for 1961 were calculated for Saskatchewan by the Department of Health. The figures for 1981 and 1996 were taken from the Statistics Canada publication, Life Tables, Canada and Provinces, 1980-1982 and 1995-1997.

H. Adoptions

There were 130 adoptions registered in Saskatchewan during 2004, compared to 196 adoptions in 2003. The total of 130 adoptions registered includes out-of-province adoptions of persons born in Saskatchewan as well as adoptions in Saskatchewan of persons born elsewhere.

I. Legal Changes of Name

During 2004, a total of 748 legal change of name applications were registered in Saskatchewan. This represents an increase from the 737 change of name applications that were registered in 2003. The number of applications does not reflect the number of persons who changed their name as each application may affect more than one person and in some cases, an entire family.

Table 12. Documents Issued 2001 – 2004

Document type	2001	2002	2003	2004
Birth Certificates	45,041	47,141	48,013	47,853
Marriage Certificates	5,199	4,914	5,375	5,090
Death Certificates	5,044	4,840	5,040	5,674
Copies of Registrations	10,801	10,283	10,202	9,539
Total	66, 085	67,178	68,630	68,156